





APPENDIX B

OUTPUTS FROM META.AI

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How many pages of text would be in 267 TB of books? 👤

To estimate the number of pages, we'll need to make a few assumptions.

- Average book size: 250-300 pages (we'll use 275 pages)
- Average storage size per page: 100-150 KB (we'll use 125 KB)

Now, let's do some calculations:

1 TB = 1,000,000,000,000 bytes (or 1 trillion bytes)
267 TB = 267,000,000,000,000 bytes

Assuming 125 KB (125,000 bytes) per page:

$267,000,000,000,000 \text{ bytes} / 125,000 \text{ bytes per page} \approx 2,136,000,000 \text{ pages}$

Now, let's convert this to the number of books:


$2,136,000,000 \text{ pages} / 275 \text{ pages per book} \approx 7,775,455 \text{ books}$


So, approximately 7.78 million books or 2.14 billion pages of text would be equivalent to 267 TB of storage.


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Log in to save your conversation history, sync with Messenger, generate images and more.

When you ask AI to imagine something, options will generate as you type.

How tall would 2.14 billion pages of text be if stacked? 

To estimate the height, we'll need to make an assumption about the thickness of a single page.

- Average thickness of a page: 0.003-0.005 inches (we'll use 0.004 inches)

Now, let's calculate the total height:

$2,136,000,000 \text{ pages} \times 0.004 \text{ inches per page} = 8,544,000 \text{ inches}$

There are 12 inches in 1 foot, so:

$8,544,000 \text{ inches} / 12 = 712,000 \text{ feet}$

There are 5,280 feet in 1 mile, so:

$712,000 \text{ feet} / 5,280 = \text{approximately } 135 \text{ miles}$

So, if we stacked 2.14 billion pages of text on top of each other, the height would be approximately **135 miles**.

For perspective:

- The Karman line, the internationally recognized boundary between the atmosphere and outer space, is at an altitude of approximately 62 miles.
- The highest mountain, Mount Everest, is approximately 5.5 miles high.

Our stacked pages would be roughly 2.2 times higher than the Karman line!

